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GP/1618



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: R. ZAMBIAS et al.

Serial No.: 09/009,846

Group Art Unit: 1618

Filed: January 20, 1998

Examiner: P. Ponnaluri

For: LOGICALLY ORDERED ARRAYS
OF COMPOUNDS AND METHODS
OF MAKING AND USING THE
SAME

Attorney Docket No.: 5925-061

AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the office action dated November 7, 2000, applicants
submit the following amendments and comments for entry into the file of this application.

In the Claims:

Please amend the claims as follows:

G1
11. (Four times amended) A method of making a spatially-addressable
combinatorial array of at least 500 compounds in solution in multiple cycles, said method
comprising the steps of:

Sub
cont
(a) apportioning into a plurality of reaction vessels that are identifiable by their spatial
addresses (i) a first plurality of reactants, each reactant comprising a same first reactive group
and a different first structural diversity element such that the reactants composing the first
plurality differ from one another, with one first reactant per reaction vessel; and (ii) a second
reactant comprising a second reactive group and a second structural diversity element, with
one second reactant per reaction vessel; and

(b) concurrently reacting said first and second reactants in each of the plurality of
reaction vessels under solution phase conditions wherein the first and second reactive groups
react with one another by an addition reaction to form a compound; and

(c) repeating steps (a) and (b), thus forming the combinatorial array of at least 500